PATENT COOPERATION TREATY PCT

INTERNATIONALSEARCHREPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file ref	erence	FOR FURTHER ACTION	as wel	see Form PCT/ISA/220 I as, where applicable, item 5 below.
International application No.		International filing date(day/m	onth/year)	(Earliest) Priority Date (day/month/year)
PCT/JP2005/00	06550	29.03.200		31.03.2004
Applicant				
RICOH COMPANY	LTD.		·	
This international search report to Article 18. A copy is being	_		ching Authori	ty and is transmitted to the applicant according
This international search rep	ort consists of	a total of 3 sheets.		
It is also accompa	inied by a copy	y of each prior art document cit	ed in this repo	ort.
language in which i	t was filed, unl	less otherwise indicated under t was carried out on the basis of	his item.	basis of the international application in the
b. With regard to	any nucleotide	e and/or amino acid sequence	disclosed in	the international application, see Box No. I.
2. Certain claims	were found u	nsearchable (See Box II).		
3. Unity of invent	ion is lacking	(See Box III).		
4. With regard to the title,				
the text is appr	oved as subm	nitted by the applicant.		
the text has be	en established	d by this Authority to read as	follows:	
5. With regard to the abstraction	ct.			
l `	-	ted by the applicant.		
the text has bee	n established,	according to Rule 38.2(b), by		y as it appears in Box No. IV. The applicant ch report, submit comments to this Authority.
6. With regard to the draw				
_	_	blished with the abstract is F	igure No	1
☐ as suggest	ted by the appl	licant.		
▼ as selected	d by this Autho	ority, because the applicant faile	ed to suggest a	a figure.
as selected	d by this Autho	ority, because this figure better	characterizes	the invention.
b. none of the figu	res is to be pul	blished with the abstract.	•	

INTERNATIONALSEARCHREPORT

International application No. PCT/JP2005/006550

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl. H01L21/822, 27/04, 27/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl. H01L21/822, 27/04, 27/06

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Published examined utility model applications of Japan 1922-1996
Published unexamined utility model applications of Japan 1971-2005
Registered utility model specifications of Japan 1996-2005
Published registered utility model applications of Japan 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED	10 BE KELEVANI

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	JP 3-173468 A(SEIKO EPSON CORPORATION) 1991.07.26, line 18 upper right-hand page 2 to line 5 lower right-hand page 2, Fig. 1 (Family: none)	1,2,8
X Y	JP 11-220094 A(SONY CORPORATION) 1999.08.10, [0018]-[0024], Figs. 1-3 (Family: none)	1,2 8,9
X A	JP 6-188369 A(MOTOROLA JAPAN) 1994.07.08, [0012]-[0018], Figs.1-2 (Family: none)	3,7 4-6

V	Further documents are listed in the continuation of Box C.	ľ	See patent family annex.		
* "A" "E"	considered to be of particular relevance earlier application or patent but published on or after the inter-	"T"	later document published after the internati priority date and not in conflict with the app understand the principle or theory underlying the document of particular relevance; the claims	e inventi	on
"L"	national filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other		be considered novel or cannot be considered inventive step when the document is taken all	ered to	
"O" "P"	special reason (as specified)	"Y" "&"	document of particular relevance; the claims be considered to involve an inventive step wh combined with one or more other such combination being obvious to a person skilled document member of the same patent family	hen the o	locument is ents, such
Date	e of the actual completion of the international search	Dat	e of mailing of the international search repo		
	03.06.2005		21 . 6. 20	05	
Nam	ne and mailing address of the ISA/JP	Aut	horized officer	4L	2933
	Japan Patent Office	SH	INGO FUCHI		
.3-4-	-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan	Tele	ephone No. +81-3-3581-1101 Ext. 3	498	

INTERNATIONALSEARCHREPORT

International application No. PCT/JP2005/006550

Category*	C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Ro			
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X	JP 9-116097 A(SEIKO EPSON CORPORATION)	3		
A	1997.05.02, [0011]-[0012], Fig. 1	4-6		
	(Family: none)	·		
	TO 0 101010 A (NIEDON DENCO CORDODATION)	9		
Y	JP 8-181219 A(NIPPON DENSO CORPORATION) 1996.07.12, [0003]-[0005], Fig.3	9		
	(Family: none)			
	(ramily, none)			
A	JP 8-46142 A(NIPPON DENSO CORPORATION)	4-6		
	1996.02.16, whole document, Figs. 1-9			
•	(Family: none)			
ת	Microfilm of the specification and drawings	4-6		
A	annexed to the written application of Japanese			
	Utility Model Application No. 81054/1984			
	(Laid-open No. 81045/1984) (SANYOELECTRIC CO,			
	LTD.)			
	1984.05.31, whole document, Figs. 1-5			
	(Family: none)	·		
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